TRU-TONE METAL PRODUCTS (DAR SITE ID #146)

Address:	1261 Willoughby Avenue, Brooklyn 11237
Tax Lot Parcel(s):	Brooklyn Block 3199, Lot 46
Latitude:	40.705164
Longitude:	-73.922264
Regulatory Programs/ Numbers/Codes:	IWD Permit No. P-49, USEPA ID No. 1007769811, PBS No. 2-034517
Analytical Data Status:	☐ Electronic Data Available ☒ Hardcopies only ☐ No Data Available

1 SUMMARY OF CONSTITUENTS OF POTENTIAL CONCERN (COPCs) TRANSPORT PATHWAYS TO THE CREEK

The current understanding of the transport mechanisms of COPCs from the upland portions of the Tru-Tone Metal Products site (site) to Newtown Creek is summarized in this section and Table 1, and supported in the following sections.

Overland Transport

This site is located approximately 0.5 mile from Newtown Creek and associated waterways. This is not a complete current or historical pathway.

Bank Erosion

The site is not adjacent to Newtown Creek and associated waterways. This is not a complete current or historical pathway.

Groundwater

The site is located approximately 0.5 mile from Newtown Creek and associated waterways. Information regarding on-site groundwater investigations was not identified in documents available for review. There is insufficient evidence to make a current or historical pathway determination.

Overwater Activities

The site is not adjacent to Newtown Creek and associated waterways. Information regarding overwater activities was not identified in documents available for review. This is not a complete current or historical pathway.

Stormwater/Wastewater Systems

Information regarding on-site stormwater and wastewater infrastructure and management was not identified in documents available for review. Available documents contain no current Industrial Wastewater Discharge (IWD) permits. It is not known if other means of direct or private discharge from the site exists. There is insufficient evidence to make a current or historical pathway determination for direct discharge of stormwater and wastewater.

Three expired IWD permits were identified for the site (NYCDEP 1993, 1998, 2001b). The site is within the Newtown Creek Water Pollution Control Plant (WPCP) sewershed (NYCDEP 2007). Stormwater and wastewater discharges from the site flow into a combined municipal sewer system. When the combined flows exceed the system's capacity, untreated combined sewer overflows (CSOs) are discharged to English Kills. To the extent that wastewater discharges are coincident with CSO events, discharge to the sewer/ CSO is a complete historical pathway and a potentially complete current pathway.

Air Releases

Information regarding air emissions from the site was not identified in documents available for review. There is insufficient evidence to make a current or historical pathway determination.

2 PROJECT STATUS

Information regarding on-site environmental investigations was not identified in documents available for review. A New York State Department of Environmental Conservation (NYSDEC) Site Code was not identified for this site.

3 SITE OWNERSHIP HISTORY

Respondent Member: ☐ Yes ☒ No

Owner	Years	Occupant	Types of Operations
Debann Realty Corporation	1947 – 1967	Unknown	Unknown
Estate of Isaac Bazinover	1967 – 1976	Tru-Tone Metal Products, Inc.	Anodization of metal parts
G.M. Realty Company	1976 – 1982		
James P. Murtha	1982 – 1995		
Jamnick Realty Corporation	1995 – present		

4 PROPERTY DESCRIPTION

The property at 1261 Willoughby Avenue occupies approximately 0.12 acre, covered with a building, approximately 0.5 mile from Newtown Creek. The site is at approximately 35 feet above mean sea level and slopes gently from southeast to northwest.

Surrounding land uses appear to be commercial and industrial. The property is adjoined by commercial and industrial buildings to the north, south, and west and by Willoughby Avenue to the east. Wilco Finishing Corporation (DAR ID #149) is located to the east across Willoughby Avenue. The area is zoned M1-1 (NYCDCP 2011b). M1 manufacturing districts are designated for areas with light industry and are typically adjacent to residential or commercial districts (NYCDCP 2011a). A 2010 aerial photograph indicates the current site layout and is presented as Figure 1.

5 CURRENT SITE USE

The site currently conducts aluminum anodizing and painting.

6 SITE USE HISTORY

Tru-Tone Metal Products, Inc. (Tru-Tone Metal Products), began operations at 1261 Willoughby Avenue, Brooklyn around 1968 (NYS 1968; G.M. Realty Co. 1982). James P. Murtha is the Chief Executive Officer (CEO).

7 CURRENT AND HISTORICAL AREAS OF CONCERN AND COPCs

The current understanding of the historical and current potential upland and overwater areas of concern at the site is summarized in Table 1. The following sections provide a brief discussion of the potential sources and constituents of potential concern (COPCs) at the site requiring additional discussion.

Potential historical and current contaminant sources at the site include equipment and products used in aluminum anodizing operations as well as petroleum storage. The primary COPCs for these sources include metals, volatile organic compounds (VOCs), and total petroleum hydrocarbons (TPH).

7.1 Uplands

Tru-Tone Metal Products anodizes and dyes aluminum parts. After an alkaline cleaning of aluminum parts from dirt, grease, and oil, clean parts are then immersed in a 15-percent solution of sulfuric acid. The facility then washes and dries the processed pieces or immerses them into a coloring bath. The operation collects wastewater in a pit and dumps it in a neutralization tank. The wastewater is treated and then discharged in the New York City sewer system (NYCDEP 2001a).

The site has a 2,000-gallon, steel underground storage tank (UST; Tank ID 1044) under Petroleum Bulk Storage (PBS) No. 2-034517 that has contained No. 1, 2, or 4 fuel oil that was installed on December 1, 1947. It is unknown where the tank is located on the site. The tank is temporarily out of service (NYSDEC 2011; EDR 2010).

7.2 Overwater Activities

This site is not adjacent to Newtown Creek or associated waterways. Information regarding overwater activities was not identified in documents available for review.

7.3 Spills

Information regarding on-site spills was not identified in documents available for review.

8 PHYSICAL SITE SETTING

Site-specific hydrogeologic information was not identified in documents available for review. The geologic setting for Newtown Creek consists of impermeable Precambrian and Paleozoic crystalline bedrock, overlain by the Upper Cretaceous Raritan formation, Magothy formation and Matawan Group (undifferentiated), unconsolidated Pleistocene deposits and upper Pleistocene glacial deposits and Holocene shore, beach salt-marsh deposits, and alluvium, along with local occurrences of artificial fill (Buxton et al. 1981; Soren and Simmons 1987). The primary areas of groundwater discharge are Newtown Creek and its tributaries and the East River (Misut and Monti 1999). In the vicinity of Newtown Creek, groundwater flow in the Upper Glacial aquifer is generally north and south towards the creek. With increased distance from the creek, groundwater will flow towards the nearest surface water body to discharge (Misut and Monti 1999). Incidences of perched groundwater may occur above the Upper Glacial Aquifer in some areas, particularly in formerly low-lying areas that have been filled. Groundwater flow at a specific property may differ from the regional pattern due to pumping for groundwater treatment or dewatering activities (Misut and Monti 1999), the presence of buried utilities, or other preferential pathways.

9 NATURE AND EXTENT (CURRENT UNDERSTANDING OF ENVIRONMENTAL CONDITIONS)

9.1 Soil

Soil Investigations	☐ Yes ☒ No
Bank Samples	☐ Yes ☐ No ☒ Not Applicable
Soil-Vapor Investigations	☐ Yes ☒ No

Information regarding on-site soil investigations was not identified in documents available for review.

9.2 Groundwater

Groundwater Investigations	☐ Yes ☒ No
NAPL Presence (Historical and Current)	☐ Yes ☒ No
Dissolved COPC Plumes	☐ Yes ☒ No

Visual Seep Sample Data ☐ Yes ☐ No ☒ Not Applicable

Information regarding on-site investigations was not identified in documents available for review.

9.3 Surface Water

Surface Water Investigation	☐ Yes ☒ No
SPDES Permit (Current or Past)	☐ Yes ☒ No
Industrial Wastewater Discharge (IWD) Permit (Current or Past)	☒ Yes ☐ No
Stormwater Data	☐ Yes ☒ No
Catch Basin Solids Data	☐ Yes ☒ No
Wastewater Data	☒ Yes ☐ No

9.3.1 Stormwater and Wastewater Systems

The site contains no available information on stormwater infrastructure, and it is within the Newtown Creek WPCP sewershed. Stormwater and wastewater discharges from the site flow into a combined municipal sewer system. When the combined flows exceed the system's capacity, untreated CSOs are discharged to English Kills. It is not known if other means of direct or private discharge from the site exists.

9.3.2 Industrial Waste Discharge Permit

The site has obtained three IWD permits in the past, as summarized in the following table:

Permit Number	Effective Date	Expiration Date
93-P49-1 (NYCDEP 1993)	09/13/93	09/12/98
98-P349-1 (NYCDEP 1998)	08/17/98	08/16/03
01-P49-1 (NYCDEP 2001b)	05/22/01	05/21/06

Note:
NYCDEP – New York City Department of Environmental Protection

IWD Permit No. 98-P49-1 (NYCDEP 1998) and IWD Permit No. 01-P49-1 (NYCDEP 2001b) identified two permitted discharge points located at the site.

9.3.3 Sampling Data

The site has received various notices of violation (NOVs) from the New York City Environmental Control Board (NYCECB) for non-compliances, such as exceeding IWD permit limits and failure to maintain pretreatment equipment (NYCECB 1993). Permit exceedances identified in available documentation are summarized as follows:

Violation Code	Report Date	Constituent	Result	Unit	Limit	Source
P06	04/18/90	pH	12.1	SU	5.0 – 9.5	NYCECB 1990a
P06	10/12/90	pH	4.4	SU	5.0 – 9.5	NYCECB 1990b
--	06/24/94	pH	4.0	SU	5.0 – 11.0	NYCDEP 1994a
--	11/07/94	Chromium VI	6.6	mg/L	5.0	NYCDEP 1994b
P38	04/26/00	pH	< 5.0	SU	5.0 – 11.0	NYCECB 2000
P38	01/25/01	pH	< 4.0	SU	5.0 – 11.0	NYCECB 2001a
P58		Lead	3.3	mg/L	0.69	
P38	08/07/01	pH	< 3.0	SU	5.0 – 11.0	NYCECB 2001b
P38	10/04/01	pH	< 4.0	SU	5.0 – 11.0	NYCECB 2001c
--	03/18/02	Nickel	4.3	mg/L	3.0	NYCDEP 2002
P38	06/03/02	pH	< 5.0	SU	5.0 – 11.0	NYCECB 2002a
P38	08/13/02	pH	< 5.0	SU	5.0 – 11.0	NYCECB 2002b
--	03/05/04	Chromium (Total)	7.2	mg/L	2.77	NYCDEP 2004
		pH	3.2	SU	5.0 – 11.0	

Notes:
-- – no violation code available
mg/L – milligram per liter
NYCDEP – New York City Department of Environmental Protection
NYCECB – New York City Environmental Control Board
SU – standard units

9.3.4 Surface Water Summary

The site contains no available information on stormwater infrastructure, and it is within the Newtown Creek WPCP sewershed. According to City records, stormwater and wastewater

discharges from the site flow into a combined municipal sewer system. When the combined flows exceed the system's capacity, untreated CSOs are discharged to English Kills through Outfall NC-015. It is not known if other means of direct or private discharge from the site exists.

Identified IWD permits located for this site have expired. Available documents contain several historical citations and NOVs, including several pH exceedances. However, no record of current violations or compliance issues was located for the site.

9.4 Sediment

Creek Sediment Data ☐ Yes ☐ No ☒ Not Applicable

Information regarding sediment investigations was not identified in documents available for review.

9.5 Air

Air Permit ☐ Yes ☒ No

Air Data ☐ Yes ☒ No

Information regarding air emissions from the site was not found in reviewed documents.

10 REMEDIATION HISTORY (INTERIM REMEDIAL MEASURES AND OTHER CLEANUPS)

Information regarding on-site remedial activities was not found in documents available for review.

11 BIBLIOGRAPHY/INFORMATION SOURCES

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12 ATTACHMENTS

Figures

Figure 1 Site Vicinity Map: Tru-Tone Metal Products

Tables

Table 1 Potential Areas of Concern and Transport Pathways Assessment

Table 1

Potential Areas of Concern and Transport Pathways Assessment – Tru-Tone Metal Products

Potential Areas of Concern	Media Impacted					COPCs														Potential Complete Pathway						
						TPH			VOCs																		
Description of Areas of Concern	Surface Soil	Subsurface Soil	Groundwater	Catch Basin Solids	Creek Sediment	Gasoline-Range	Diesel – Range	Heavier – Range	Petroleum Related (e.g., BTEX)	VOCs	Chlorinated VOCs	SVOCs	PAHs	Phthalates	Phenolics	Metals	PCBs	Herbicides and Pesticides	Dioxins/Furans	Overland Transport	Groundwater	Direct Discharge – Overwater	Direct Discharge – Storm/Wastewater	Discharge to Sewer/CSO	Bank Erosion	Air Releases
Fuel Oil UST	?	?	?	?	--	?	?	?	?	?	?	?	?	?	?	?	?	?	?	--	?	--	--	?	--	?
Anodizing and Painting Operations	?	?	?	?	--	?	?	?	?	?	?	?	?	?	?	?	?	?	?	--	?	--	--	√	--	?

Notes:
√ – COPCs are/were present in areas of concern, having a current or historical pathway that is determined to be complete or potentially complete.
? – There is not enough information to determine if COPC is/was present in area of concern or if pathway is complete.
-- – Current or historical pathway has been investigated and shown to be not present or incomplete.

BTEX – benzene, toluene, ethylbenzene, and xylenes
COPC – constituent of potential concern
CSO – combined sewer overflow
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
SVOC – semi-volatile organic compound
TPH – total petroleum hydrocarbon
UST – underground storage tank
VOC – volatile organic compound

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- USEPA Sample Locations (Surface and Subsurface)
- Shoreline (NYC Dept. of Information Technology, 2006)
- USGS Nat'l Elev. Dataset 5-foot Contours
- Selected Site Property Boundary
- Neighboring Site Property Boundary

Outfall Class

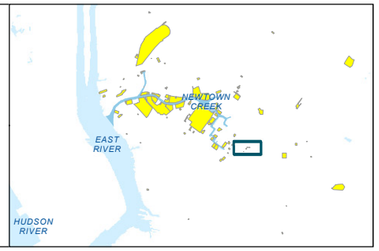
- Direct Discharge
- General
- Highway Drain
- Major Stormwater Outfall
- SPDES
- Storm Drain

NOTES:

1. Outfall Labeling: BB: Bowery Bay; NC(B/Q): Newtown Creek, Brooklyn/Queens; ST: Stormwater.
2. Outfall locations are preliminary, compiled, estimated data based on New York City Department of Environmental Protection (NYCDEP) maps and tabulated data and other resources. Many outfall locations were taken from the New York City Shoreline Survey Program: Newtown Creek Water Pollution Control Plant Drainage Area, NYCDEP, March 31, 2003. Other locations were taken from an excerpt from a similar report from 2008 (the complete report was not included in files available for review). Finally, some outfall locations were inherited from previous Anchor QEA and Newtown Creek Project work. Latitudinal and longitudinal data provided in the 2003 and 2008 NYCDEP reports were rounded to the nearest second. This resulted in potential outfall location discrepancies of up to approximately 200 feet. All outfall locations are currently under field verification.
3. Aerial Photos: New York State Division of Homeland Security and Emergency Services, 2010.
4. Site Boundaries are based on New York City parcels data.
5. Coarse topographic contours are derived from U.S. Geological Survey 10-meter data.

Feet

0 100 200 300 400



ANCHOR QEA

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Figure 1
Site Vicinity Map
Draft Upland Site Summary: Tru-Tone Metal Products
Newtown Creek RI/FS